



SOUTH AUSTRALIAN SOCIETY OF MODEL
& EXPERIMENTAL ENGINEERS

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S.A.S.M.E.E. BULLETIN

1927 --- 2011

**THE OFFICIAL JOURNAL OF
THE SOUTH AUSTRALIAN SOCIETY OF
MODEL & EXPERIMENTAL ENGINEERS INC.**

JUNE 2011

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HAPPENINGS.

by J. M.

SASMEE has been very fortunate this year as our summer, has certainly not been too hot and there were no major distractions prior to any public field day. The park is looking very well and probably the greenest in many years and with the use of the miniskip bin for green waste, which has been excellent for removing branches, leaves etc, and keeping the park tidy prior to all public field days.

The new fryers in the canteen have been a huge improvement as the cooking time has been reduced and our customers do not need to wait as long and the ladies have also indicated that we are now selling approximately 20% more chips than before. Thanks Ladies.

On most public field days I do try to get around to everyone and to say hello and maybe have a chat, and it's from this chat, that I find out how many models are now about to be started or are already in the building stages. It's fantastic to see the enthusiasm and the technicalities they're facing in certain aspects of their models. Keep up all the good work and I'm sure there will be some interesting models coming out very soon. Matthew Leslie's new BHP 6000 came out and made an impressive debut. It ran all day without any problems and I see it's made heavy as well. I'm sure that will be the first of many to come. Well Done.

Some sad news has come about Bob Scanlan who recently has had a fall at home and as a result has now gone into a nursing home. Bob has always been a very active member, who made sure that no one was going to stop him from attending a public field day. Bob also made some very nice stationary engines which performed very well and are still working today in the Steamhouse on many public field days.

cont'd.

We are now proud parents to about 400 little fish, so until further notice the harbour is out of bounds. Just a note to all, if you have spare time on a Wednesday or a Saturday, why not come along to a working bee, You'll be surprised how much does get done when numbers are there, and also a great coffee session.

MARCH MEETING NIGHT

Ian Clarke gave a night of in depth information on the RMS TITANIC.

The Titanic was a passenger liner that struck an iceberg on her maiden voyage from Southampton, England, to New York City, and sank on 15th April 1912. She struck the iceberg 4 days into the crossing, at 23.40 on 14th April 1912, and sank at 2.20 the following morning, resulting in the deaths of 1,517 people in one of the deadliest peacetime maritime disasters in history. Some of the details are

Gross tonnage. 46,328 tons

Tonnage displacement. 60,000 tons

Length overall. 882' 6"

Breadth. 92' 6"

Height from keel bottom to boat deck. 97' 4"

Height of funnels above casing. 72'

Funnel major diameter. 24'

No. of steel decks. 11

No. of water tight bulkheads. 15

Passenger capacity. 2,500

Crew. 860

Keel plates. 1 ½ " thick

Hull plates. 1" thick

Double cellular bottom

Single skin hull

Bulk head plates. ½" thick

Centre propeller. 27 tons

Wing propellers. 38 tons

Rudder. 101 tons

Many thanks to Ian Clark for this enjoyable and informative evening.

SATURDAY PUBLIC FIELD DAY

19TH MARCH 2011

38 members attended a warm 26 degree C day, and today had to be the day of birthday parties and some of the cakes that were on show just about out done our models. Bob Smith brought his 900 class diesel out for a round prior to the run day as it was in the museum for a few years and although a little hard to get started, it performed as well as it did the last time it ran, showing us that good models don't die. The ladies in the canteen, Margaret Lewis, Jean Clark, Jackie Monte, Toni Offler and Jill Smith had a more relaxing day as there were lots of helpers to cover the busy times of the day. Many thanks to the ladies as they do look after our needs, especially when it comes to food.

STEAM HOUSE.

Ralph Ollerenshaw, John Weidenhofer and Mark Hamilton.

SASMEE PARK STATION 3 ½" & 5"

Bob Smith. / Ainsley Cuthbertson. 4-2-0 NER Fletcher #910

John Monte. - 0-4-0 Elec Shunter Jiffy 2

John Lyas. - 4-8-4 523 Essington Lewis

Malcolm Ambler. NSW 422 Class Diesel #42215

Ainsley Cuthbertson / Ian Foster. - 0-4-0 Club loco - Apprentice

Trains were dispatched by station attendants

Ainsley Cuthbertson, Ian Foster & David Hawkins.

MILLSWOOD STATION 5" & 7 ¼"

Barry Dunstan - 0-4-0 Dolgoch

Len Redway - 0-6-0 Jinty #47263

Graeme Driscoll - 4 Truck Shay

John Lewis - 0-6-0 Sevenplex

Bert Francis - 0-4-0 Harry

Trains were dispatched by Milton Smith and Ian Clark.

cont'd

BOAT POND

Allan Waller - Will Everade, Sprit Sail Barge
Michael Priest - Corvette HMAS Gardenia K99
John Shelton - Fishing Boat
- Turbo 2 Cruiser MV - 310 - White Star MV-356
Michael Offler - Corvette, Chriscraft Cabin
Cruiser - Metinda, Tug Boat
John Babi - Atlantic, Tug Boat - Small Speed
Boat
Glynne Thomas - Colwyn Bay, Trawler
Daniel Lyas - Paddle Steamer, Emjay
Stan Shelton - Paddlesteamer - Adelaide
Alan Saunders - Yacht, Sapphire
Alf Payne - Hamburg, Fishing Trawler.

SUNDAY PUBLIC FIELD DAY

3RD APRIL 2011

On a perfect day of 21degrees C. 49 members came out and found 4 very large birthday parties in action, both stations were kept very busy and all ran exceptionally well with 10 trains in the 5" station, 3 trains on the 7¼" station and 20 boats to occupy the pond at any stage during the afternoon. Ian Hand brought out his first attempt electric loco out to try which ran quite well with very little issues. The ladies were especially busy with all foods as it kept 5 ladies Jackie Monte, Sue Leslie, Toni Offler, Joan Timperley & Tasha Leslie going all afternoon.

Thank you ladies.

We had some visitors from Morphett Vale Railway, Bob & Joan Timperley. It didn't take long for both to be involved in the running of the club. Many thanks for their help.

STEAM HOUSE.

Ralph Ollerenshaw & John Beal & David Eustice.
cont'd

SASMEE PARK STATION 3 ½" & 5"

Michael Tingay - Heisler

John Monte - 0-4-0 Jiffy 2

Brad Cottle / Ben Cottle - 0-4-0, 0-4-0 d/h
electric shunters #49 & #53

Graeme Driscoll - 0-6-0, 0-6-0 Kitson - Meyer.

John Mere - 2-8-4 720 class #724

Allan Wallace - 2-6-0 Black Five.

Michael Moyse Co-Co Detroit- Toledo & Ironton
steeple cab

Simon Lindsay - 2-8-0 Nigel Gressley #457

Ian Hand - 0-4-0 Elec Loco - Yet to be named

Ian Hand / David Hawkins - 0-4-0 Club Loco

- Apprentice

Trains were dispatched by station attendants Ian
Hand & Mark Coxon.

MILLSWOOD STATION 5" & 7 ¼"

Len Redway - 0-6-0 Jinty

Barry Dunstan / Craig Dunstan 0-4-0 Dolgoch

Bert Francis - 0-4-0 Harry.

Trains were dispatched by David Walton & Michael
Tingay.

BOAT POND

Michael Priest - Afric Star

Bob Smith - Patrol Boat, Brave Borderer P1011

Chris McKay - Submarine

John Babi - Atlantic Tug Boat - Small Speed Boat.

John Shelton - Turbo 2, Cruiser MV310 -

Thunderbolt

Allan Waller - Titan, Top Sail Schooner

- Clyde Puffer, Small Freighter - Will Everade,
Sprit Sail Barge - 15th Century Galleon.

Glynne Thomas - Colwyn Bay, Trawler

Stan Shelton - Adelaide - Paddlesteamer

Alan Saunders - M443 HMS Marvel, Algerine Class
Minesweeper

Gerry Turner - A-isha 2

Mary Turner - Bristol Bay, Trawler

Michael Offler - Corvette, Chriscraft Cabin

Cruiser - Metinda, Tug Boat

Malcolm Ambler - Swiss Barge - Cruiser 05

Steven Shelton - Atlantic Tug Boat

APRIL MEETING NIGHT.

Bill Coles gave a talk and demonstration of his aircraft engine, a 1/4" scale Bentley BR2. The building of the engine, over a period of 9 years, follows the details as published in a book by Lew Blackmore, who won the Duke of Edinburgh Challenge Cup in 1982 with his engine.

Having 9 cylinders and the added problems of a rotary engine, [stationary crankshaft, revolving cylinders] there is quite a bit of repetitive, but accurate machining and components to be made. Hence the need for an extensive range of specialised tooling and fixtures. It was pointed out that whilst the book gives most details it lacks information on the ignition system which proved to be a stumbling block and cost some 6 months of frustrating work before suitable sparks in the correct place was achieved. Valve timing was also challenging.

With the exception of the spark plugs, [purchased in the hope of solving a problem] the 5 ball races and the propellor, [made by a past member OF SASMEE] all the other mechanical components were made from raw materials.

Some idea of the size of the engine. Capacity. 347cc or 21.17 cubic inches. Bore 33mm. Stroke 45mm. Engine runs on unleaded petrol with the system lubrication of castor oil being fed by a 1/8" bore x 5/32" stroke worm gear driven pump. Ignition is 12v based on the Kettering system firing the dual ignition circuit. The engine swings a 27" propellor.

The engine burst into life after the necessary priming and ran at some 1200 rpm, giving club members the sounds and smell of a bygone era.

SATURDAY PUBLIC FIELD DAY

16TH APRIL 2011

48 members attended a beautiful 22 degree C day, and we had an enormous crowd keeping everyone extremely busy and no chance for a rest. There were 9 large birthday parties and with the start of the school holidays, there certainly were many children for rides. Jackie Monte, Jill Smith & Dawn Schaefer were kept busy most of the afternoon with tea's and coffees and various other foods.

It was good to hear from some members that the public had remarked on how SASMEE PARK is a nice place to come and enjoy the facilities for the afternoon. Well done to everybody and thanks.

STEAM HOUSE.

Ralph Ollerenshaw and John Weidenhofer.

SASMEE PARK STATION 3 ½" & 5"

Malcolm Ambler - NSW 422 Class Diesel #42215

John Monte - 0-4-0 Jiffy 2

Brad Cottle / Ben Cottle - 0-4-0, 0-4-0 d/h electric shunters #49 & #53

Michael Moyse - Co-Co Detroit- Toledo & Ironton steeple cab

Allan Wallace - 0-6-0 Speedy

Bob Smith - 2-8-2 700 Class #702

Ian Hand / David Hawkins - 0-4-0 Club Loco - Apprentice

Graham Richards - 0-4-0 Blowfly

Trains were dispatched by station attendants

Michael Tingay, Ian hand and David Hawkins.

MILLSWOOD STATION 5" & 7 ¼"

Barry Dunstan - 0-4-0 Dolgoch

Bert Francis - 0-4-0 Tal-y-llyn

Graeme Driscoll / David Hawkins -4 Truck Shay #12

John Lewis - 0-6-0 Sevenplex

Trains were dispatched by Alex Mitropoulos, Milton Smith and Ian Clark.

BOAT POND

Stan Shelton - Adelaide - Paddlesteamer
Allan Waller - Samson, Tug Boat
- 15th Century Galleon
Gerry Turner - A-isha 2
Mary Turner - Bristol Bay, Trawler
John Shelton - Fishing Boat - Turbo 2 Cruiser
- White Star MV-356 Thunderbolt.
Chris McKay - Submarine, Landing Craft, -LCU-578
with 2 Tanks
Michael Priest - Hanson Bay, Freighter
Michael Offler - Corvette, Chriscraft Cabin
Cruiser, -Metinda, Tug Boat.
John Babi - Atlantic, Tug Boat- Small Speed Boat
Bob Smith - Port New Plymouth, Cargo Ship
Alf Payne - Boulogne - Etaples, Fishing Trawler
Norm Kernich - EA Farquar, Pilot Launch
Glynne Thomas - Colwyn Bay, Trawler-Amsterdam,
- Tug Boat

SUNDAY PUBLIC FIELD DAY

1ST MAY 2011

On a cloudy 20 degree C day, 36 members had a relaxing day with 2 large birthday parties, however the weather has kept most patrons away. Matthew Leslie had his new BHP6000 Diesel locomotive out and ran flawlessly all afternoon and I'm sure it will be seen as a regular. The ladies in the canteen Mary Homann, Sue Leslie & Jackie Monte were enjoying the afternoon as it wasn't as busy as the usual and managed to have a cuppa or two and make the most of it. John Babi has been seen in the Steamhouse running a few stationary engines and enjoying it, a little different from the boats and good to see Schenectady makes a return after a bit of time off.

STEAM HOUSE.

John Weidenhofer and Ralph Ollerenshaw & John Babi

SASMEE PARK STATION 3 ½" & 5"

John Beal / David Hawkins 0-6-0 Schenectady
Michael Tingay - Heisler
John Mere / Brad Cottle - 2-8-4 720 Class #724
Michael Moyse co-co DT & I Steeple Cab Elec.
John Monte 0-4-0, 0-4-0 d/h elec shunters Jack & Junior.
Bryan Homann - 2-8- Nigel Gressley #456
David Hawkins - 0-4-0 Club Loco Apprentice
Matthew Leslie- co-co BHP6000 Mt Goldsworthy
Trains were dispatched by station attendants Ian Hand, Mark Coxon and Daniel Lyas.

MILLSWOOD STATION 5" & 7 ¼"

Len Redway - 0-6-0 Jinty
Barry Dunstan - 0-4-0 Dolgoch
Bert Francis - 0-4-0 Harry
Trains were dispatched by David Walton, Ian Clark & Bernie Dickinson.

BOAT POND

Stan Shelton - Adelaide - Paddlesteamer
Michael Priest - Hanson Bay, Freighter
Michael Offler - Corvette Chriscraft Cabin Cruiser.
Alf Payne - Hamburg, Fishing Trawler

MAY MEETING NIGHT

David Hawkins gave an entertaining slide show night showing us all some of the great Railway stations around South Australia. David had many pictures of trains which were all in full operation around the state in passenger and freight haulage, however now; most, now sit in museums or Heritage societies.

SATURDAY PUBLIC FIELD DAY

21ST MAY 2011

45 Members came out to a day which looked cloudy and a little windy with a forecast of rough weather to start later in the day. The weather held off and it seems the Steamhouse is starting to become a favourite place to go, as the boiler keeps the area nice and warm during the colder months. We had some visitors, Andrew Roberts and family from Invercargill, New Zealand, who had commented how enjoyable it was to be at SASMEE and how approachable we all are to answer any questions and general chit chat about different clubs. It's a credit to everyone for the easy going atmosphere, and answering many questions asked by the public during any public field day. The ladies of the canteen, Dorothy Ambler, Jill Smith, Jean Clark, Jodie Monte and Jackie Monte always had many smiles on their faces during the afternoon even though they were kept busy with 5 major birthday parties.

STEAM HOUSE.

John Weidenhofer and Ralph Ollerenshaw

SASMEE PARK STATION 3 ½" & 5"

John Beal / David Hawkins -0-6-0 Schenectady

John Lyas - 4-8-4 523 Essington Lewis

Malcolm Ambler / Ainsley Cuthbertson NSW 422

Class Diesel #42215

John Mere / Brad Cottle - 2-8-4 720 Class #724

Allan Wallace. - 0-4-0 Juliet

Ian Foster- 0-4-0 Club Loco Apprentice

Trains were dispatched by
station attendants John Foster &
Ainsley Cuthbertson and Daniel
Lyas.

MILLSWOOD STATION 5" & 7 ¼"

Graeme Driscoll /Michael Tingay4 Truck Shay #12

John Lewis -0-6-0 Sevenplex

Len Redway - 0-6-0 Jinty

cont`d

Barry Dunstan - 0-4-0 Dolgoch
Bert Francis - 0-4-0 Tal-y-llyn
Trains were dispatched by Ian Clark, Milton
Smith & Alex Mitropoulos.

BOAT POND

Stan Shelton - Adelaide - Paddlesteamer
Michael Priest - Hanson Bay, Freighter
Alan Saunders -T336, HMS Grenadier, Military
Class Armed Trawler
Gerry Turner - A-isha 2
Mary Turner - Bristol Bay, Trawler
Bill Weste - Steam Boat, Langdon
Michael Offler - Corvette Chriscraft Cabin
Cruiser.- Metinda, Tug Boat.
John Shelton - Turbo 2 Cruiser -White Star
MV-356
Chris McKay - Submarine, Landing Craft,
LCU-578 with 2 Tanks
Glynne Thomas - Colwyn Bay, Trawler,- Life
Boat, Waverley Class

MEMBER OF THE QUARTER

NORM KERNICH

Norm joined the club in the early 1950's
Norm's profession during his working years was a
teacher of primary and high schools.
Norm is a modeller a heart especially in marine,
however his real interest, was the introduction
of the tethered hydroplanes and the speed these
models could do and it lead to the building of
several hydroplanes over the years.
Over the years Norm had seen many achievements
and some of the outstanding achievements are
The completion of the pond and the filling it in
with water,
The proper fencing around the boundary and the
extension in later years for the 7 ¼" track,
The introduction of public field days,
The introduction of tethered hydroplanes.
Norm is very pleased to see the number of model
boat modellers have increased and more are being
built to such fine work they should all be proud
of.

BOAT MODELLERS

All members with boats please remember to have your frequency peg on the board before turning on your transmitter. Don't let your mistake damage someone else's boat.

FOR SALE

4 TRUCK SHAY- 7 1/4"

SEE GRAEME DRISCOLL FOR FURTHER DETAILS
PH 8276 9387

.....
STEREO SOUND GEAR FOR SALE

Phone Ian Clark for all details on
Ph 8293 6537

.....
MACHINERY FOR SALE

Vertical mill - DRO and various parts
3ph Surface grinder with mag chuck
3ph EMF welder, 3ph Pedestal grinder
1ph power hacksaw, Small welder
1ph grit blasting cabinet, Oxy set
1ph compressor, 1ph pedestal drill
Metal Folder, Heavy wooden bench
See Brian Oldfield

.....
ELECTRIC MOTORS

24 VOLT, 450 WATT GEARBOX REDUCTION 450 RPM
\$70.00 ea
See Monte 0409 838 494 / 8276 4675

DATES TO REMEMBER

JUNE 14TH	GENERAL MEETING
JUNE 18TH	SATURDAY PUBLIC FIELD DAY
JUNE 25TH	SAFETY VALVE RUN
JULY 3RD	SUNDAY PUBLIC FIELD DAY
JULY 12TH	GENERAL MEETING
JULY 16TH	SATURDAY PUBLIC FIELD DAY
AUGUST 7TH	SUNDAY PUBLIC FIELD DAY
AUGUST 9TH	ANNUAL GENERAL MEETING
AUGUST 20TH	SATURDAY PUBLIC FIELD DAY
SEPTEMBER 4TH	SUNDAY PUBLIC FIELD DAY
SEPTEMBER 13TH	GENERAL MEETING
SEPTEMBER 17TH	SATURDAY PUBLIC FIELD DAY
OCTOBER 4TH	SUNDAY PUBLIC FIELD DAY
EVERY WEDNESDAY	WORKING BEE 9-00am ONWARDS
EVERY SATURDAY	WORKING BEE 1-00pm ONWARDS

PLEASE MEMBERS AND MEMBERS PARTNERS, WE ARE ALWAYS LOOKING FOR EXTRA HELP IN THE CANTEEN. WE DO TAKE IT FOR GRANTED THAT THE CANTEEN LOOKS AFTER US VERY WELL EVERY RUN DAY, SO IF YOU CAN SPARE A DAY OR TWO, THIS TASK WOULD BE MORE ENJOYABLE.

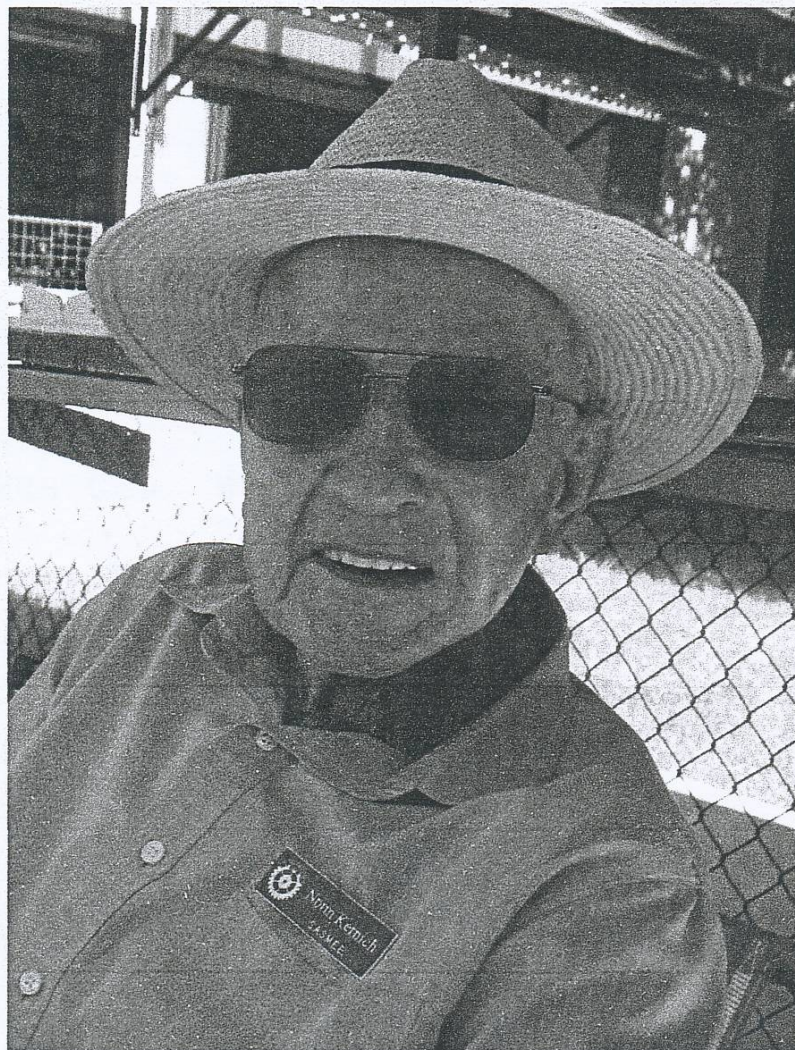


PHOTO INFORMATION

The first set of 3 photos relate to the shifting of the coal bunker to a new position adjacent to the bridge to the 7.25" g track. This move took place Wednesday, 1st June. Young's Cranes did the job under the watchful eyes of the Wednesday group.

May meeting night shows the BR2 Bentley of Bill Coles.

Ever wondered what was under the red tarp in the back parking lot? All is revealed! It's a backup boiler for the steam house. Inspection was carried out by Bernie Dickinson and Ralph Ollerenshaw. Unveiling took place on April 27th. 2011.

Norm Kernich. Member of the month is shown relaxing at the boat pond.

OTHER THINGS

by the Editor.

The last page of the photo section is a bit of local history. A shot of the the now defunct manufacturing complex of "Hercus". Situated in Anderson Street Southwark, Thebarton, it produced a wide range of first class machine tools. Also shown is a typical inspection sheet for a Model "A" lathe. Fred Hercus, the original, was a founding member of SASMEE. Ralph Excell, their longterm chief inspector was also a SASMEE member.

A while ago I was fortunate enough to purchase a Model "C" flat belt driven lathe. The lathe was complete including the full set of change wheels. The flat belt needed replacing and I found the harness maker at the Morphetville race course a good source of supply. The serial number of the lathe is 1043. For its age, made in 1944, its in good condition.

Members may be interested in a web site, "The woodwork Manufacturing Forum" . If you click onto this you will find a metal working group and a dedicated Hercus group. The Hercus group has a wide range of questions and answers dealing with Hercus owners. You will also find a register which, if you know the serial number of your lathe it will tell you the year it was made. The site is Australian so its all local information.

SASMEE OFFICE BEARERS

2010---2011

PRESIDENT: JOHN MONTEODORISIO. 0409 838 494
8276 4675

VICE PRESIDENT: IAN THOMAS. 8387 9774

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JOHN LEVERS 8536 0135

JOHN MONTE. [T] 0414 838 408

BRYAN HOMANN. [T] 8390 1925

CANTEEN MANAGEMENT: EXECUTIVE COMMITTEE.

VICE PATRON: J. BERNARD DICKINSON.
B.A. CPEng. FIE Aust. FI MAR. EST

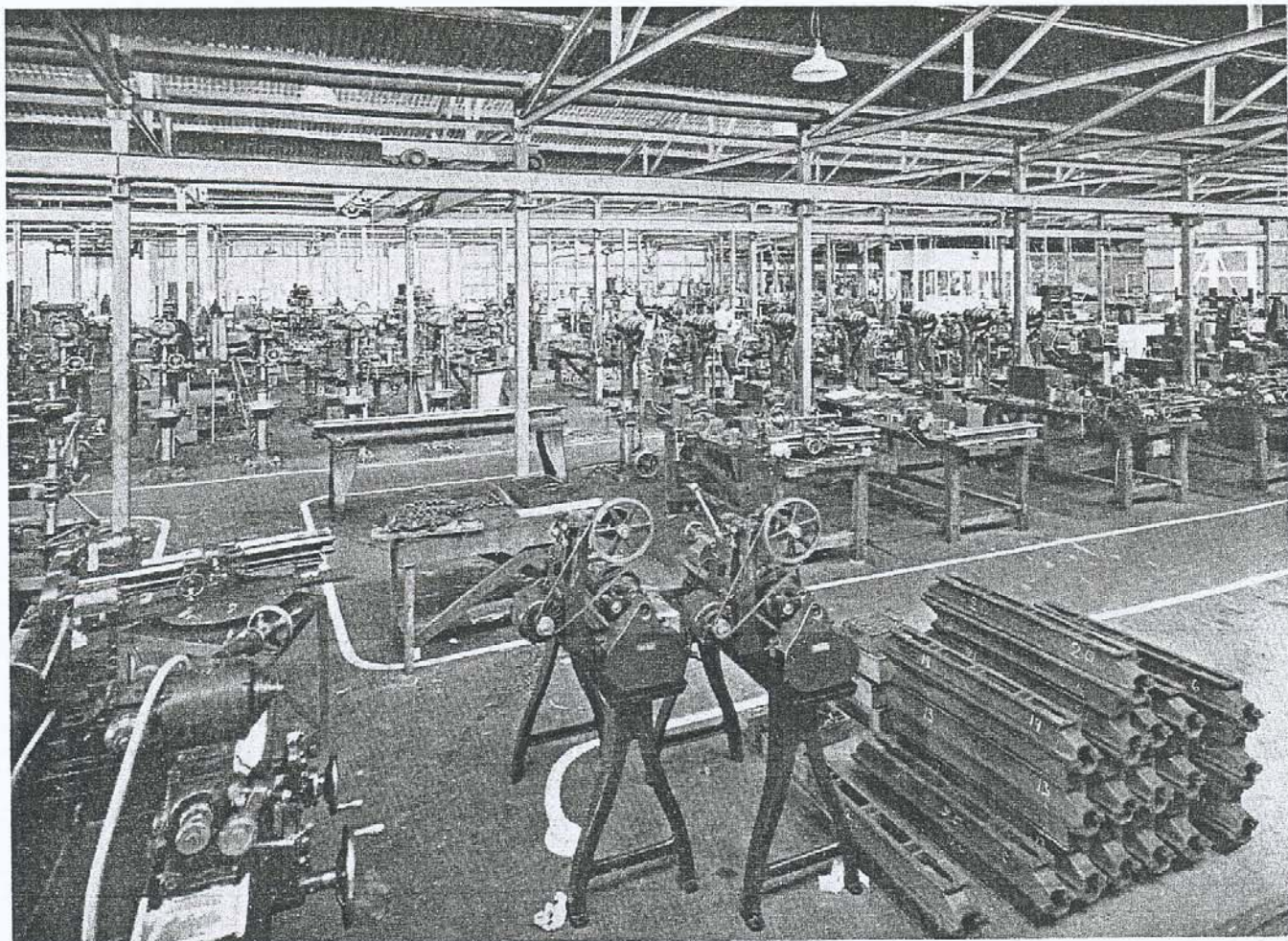
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F. W. HERCUS MANUFACTURING CO. LIMITED
ANDERSON STREET, SOUTHWARK, S.A.

HERCUS 9" PRECISION LATHE

Model A Machine No. 1851
INSPECTION RECORD

	Permissible Error	Test Record	Tested By
HEADSTOCK SPINDLE			
Spindle taper run-out—			
At end of 7" bar	.001	.0002	RG
At Spindle Nose	.0003	.0001	
Test Bar parallel with bed—			
Horizontal plane (free end inclined towards tool)	.0007	.0003	
Vertical plane (free end rising)	.0007	.0006	
Axial Slip (measured at two points displaced by 180°)	.0005	.0004	
TAILSTOCK SPINDLE			
Test Bar parallel with bed—			
Horizontal plane (free end inclined towards tool)	.0004 in 2"	.0003	
Vertical plane (free end rising)	.0004 in 2"	.0002	
AXIS OF CENTRES			
Horizontal plane (tailstock end inclined towards the tool)	.0005	.0005	
Vertical plane (tailstock end rising)	.0005	.0003	
CROSS SLIDE ALIGNMENT			
Lathe must face concave only within	.001 on 9" diam.	.0002	
Does saddle fit bed correctly, travel smoothly, and clamp firmly?		✓	gls
Do Cross Slide and Compound Rest work smoothly?		✓	
Does Lead Screw turn freely and nut fit correctly?		✓	
Tailstock moves freely on bed and clamps firmly		✓	
Tailstock barrel works smoothly and clamps correctly		✓	
Tailstock Centre knocks out		✓	RG
Tailstock Set-over works correctly and graduations are correct		✓	
Headstock gears work correctly		✓	gls
Gear Box gears and Tumblers all work correctly		✓	
Apron Gears work correctly		✓	
All Change Wheels and bushings have been tested and fit into place		✓	

REMARKS:

Inspected by RG/Exell Date 1/5/47

INSPECTION of HERCUS LATHES

The inspection sheet here illustrated (fig. 57) is a copy of the inspection sheet which accompanies every lathe that leaves the Hercus Works. A duplicate is also kept for official reference.

In addition to checks shown on the inspection sheet, every lathe is subject to over 50 additional checks after assembly.

These checks apply only to the assembled lathe. Every individual part in the lathe is inspected after every machining operation, to guard against faulty material or workmanship reaching the finished product.

The inspection department only passes work that comes within the rigid tolerances which have been worked out after years of experience on this class of work. This ensures that only parts as near perfect as possible are assembled into Hercus Lathes.

HERCUS 9" SWING
Precision LATHES

FIG. 57—INSPECTION RECORD.